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(54) MECHANICAL SEAL

(57) Abstract:

PURPOSE: To lead all of a sealing liquid to the vicinity of sliding sealing surfaces to remove sliding heat, by providing blocking walls on a cylindrical member arranged between a casing and two sealing members constituting a mechanical seal, to divide an inlet and an outlet passages for the liquid from each other.

CONSTITUTION: Blocking walls 5a, 5b extend on the peripheral surface of a cylindrical member 5 in the axial direction thereof and divide an annular space 11 to connect an inlet port 7 and an inlet hole 9 for a sealing liquid to each other so that the liquid entering into the inlet port 7 of a casing 6 is all led into contact with a rotary sealing element 2. For this reason, the sealing liquid does not flow round through the space 11 but enters into another space 12 as shown by an arrow 36. As a result, the sealing liquid efficiently cools the rotary sealing element 2 and then flows into the annular space 11.

through an outlet port 10 so that the liquid is discharged to the outside through the outlet hole 8 of the casing 6.

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